IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Original): A plasma processing apparatus comprising:

a vacuum chamber in which predetermined processing is to be applied on a substrate to be processed by action of plasma on the substrate to be processed, inside of the vacuum chamber being airtightly closable;

a bottom electrode provided in said vacuum chamber and configured to have the substrate to be processed placed thereon;

a top electrode provided to face said bottom electrode;

a processing gas supply mechanism configured to supply predetermined processing gas into said vacuum chamber;

a first radio-frequency power source configured to supply a radio-frequency power with a predetermined first frequency to said bottom electrode;

a second radio-frequency power source configured to supply to said bottom electrode a radio-frequency power with a second frequency that is lower than the first frequency;

a first power feeder having a first matching device that performs impedance matching for the radio-frequency power to be supplied to said bottom electrode from said first radio-frequency power source, said first power feeder being configured to feed the radio-frequency power with the first frequency to said bottom electrode from a center portion of said bottom electrode; and

a second power feeder having a second matching device that is structured as a separate body from said first matching device and performs impedance matching for the radio-frequency power to be supplied to said bottom electrode from said second radio-frequency power source, said second power feeder being configured to feed the radio-

frequency power with the second frequency to said bottom electrode from an outer peripheral portion of said bottom electrode.

Claim 2 (Original): A plasma processing apparatus as set forth in claim 1,

wherein said bottom electrode is supported on an insulator plate formed in a plate shape, and a space is formed between the insulator plate and a bottom portion of said vacuum chamber that is set to a ground potential.

Claim 3 (Original): A plasma processing apparatus as set forth in claim 2, wherein said first matching device is disposed in the space.

Claim 4 (Currently Amended): A plasma processing apparatus as set forth in any or claims 1 to 3 claim 1,

wherein said first matching device is electrically connected to said bottom electrode via a non-coaxially structured feeding rod.

Claim 5 (Currently Amended): A plasma processing apparatus as set forth in any or claims 1 to 4 claim 1,

wherein the first frequency is 13.56 MHz to 150 MHz.

Claim 6 (Currently Amended): A plasma processing apparatus as set forth in any or claims 1 to 5 claim 1,

wherein the second frequency is 0.5 MHz to 13.56 MHz.

Claim 7 (Currently Amended): A plasma processing apparatus as set forth in any or claims 1 to 6 claim 1,

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wherein capacitance of said bottom electrode is set to 50 pF or less.

Claim 8 (Currently Amended): A plasma processing apparatus as set forth in any or claims 1 to 7 claim 1,

wherein the substrate to be processed is etched by the action of the plasma on the substrate to be processed.